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What is claimed is

1. A composition comprising
 - 5 A) from 99.9 to 50% by weight of polyamide and
 - B) from 0.1 to 50% by weight of copolymers comprising olefins and vinyl acetate.
- 10 2. The composition as claimed in claim 1, where
 - B) is polyalkylene-vinyl acetate.
3. The composition as claimed in one or more of the preceding claims, where
 - 15 B is ethylene-vinyl acetate polymer.
4. The composition as claimed in one or more of the preceding claims, where the proportion by weight of vinyl acetate, based on component B, is from 30 to 99% by weight.
- 20 5. The composition as claimed in claim 4, where the proportion by weight is from 40 to 95% by weight.
6. The composition as claimed in claim 4, where the proportion by weight is
 - 25 from 80 to 90% by weight.
7. The composition as claimed in one or more of the preceding claims, where at least one nanoscale filler is present.
- 30 8. The composition as claimed in claim 7, where the nanoscale filler is a phyllosilicates.
9. The composition as claimed in claim 7 or 8, where the nanoscale filler has been selected from the group of the oxides and oxide hydrates of metals or
 - 35 of semimetals.
10. The composition as claimed in any of claims 7 to 9, where the nanoscale filler is used in the range from 0.1 to 5% by weight, based on the polyamide.

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11. A process for preparation of a composition as claimed in claim 1 via melt compounding of the constituents, where nanoscale fillers and elastomers may be metered in either together or else separately from each other.
- 5 12. A process for preparation of a composition as claimed in claim 1 via melt compounding of the constituents, where the elastomer is incorporated in the form of a masterbatch or in the form of a pellet mixture.
- 10 13. The use of molding compositions as claimed in claim 1 for production of moldings, of single- or multilayer films or of hollow articles.
14. A molding, a single- or multilayer film, or a hollow article produced from molding compositions as claimed in claim 1.
- 15 15. The use of hollow articles as claimed in claim 14 as line and/or tanks.
16. The use of copolymers composed of olefins and vinyl acetate for improvement of the buckling endurance of thermoplastics.

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